

# Massachusetts Community and State College Recycling: Bunker Hill Community College

## FINAL REPORT

June 2003

### *Submitted to:*

Eric Friedman

Director of State Sustainability

Mass. Executive Office of Environmental Affairs

251 Causeway St., 9<sup>th</sup> Floor

Boston, MA 02114-2150

617-626-1034 / fax 617-626-1180

email [eric.friedman@state.ma.us](mailto:eric.friedman@state.ma.us)

### *Submitted by:*

Draper/Lennon, Incorporated

7 South State Street

Concord, NH 03301

603-229-1962 / fax 603-229-1960

email [draperlennon@conknet.com](mailto:draperlennon@conknet.com)

## **Bunker Hill Community College Summary (No Table)**

Bunker Hill Community College (BHCC) manages the most comprehensive recycling program of any of the campuses studied. BHCC benefits from a location literally next door to one of the largest multi-material recycling facilities in Massachusetts. BHCC also benefits from a dedicated staff, who have put recycling front and center among their facilities management responsibilities. BHCC manages recycling programs for mixed paper (a specification that includes “anything that tears”), cardboard, computers and electronic equipment, and universal wastes (fluorescents, ballasts, batteries). A student-managed program captures most beverage containers. Not recycled are scrap metal, wood waste, and construction/demolition debris, all of which are generated irregularly and in small quantities, not enough (according to BSC staff) to merit implementation of a regular recycling program.

We identified possible opportunities for improved performance or cost effectiveness in only three areas:

***Electronics and Universal Wastes:*** BHCC currently uses two service providers for these waste streams. The school might be able to reduce costs – for recycling, transportation, or both – by using a single service provider.

***Wood Waste and Scrap Metal:*** BHCC can consider the value of scheduling a periodic “purge” of one or both of these waste streams – holding materials long enough to generate a volume that would justify calling for a dedicated recycling container. In addition to wastes that are clearly identified as wood or metal, the school should consider adding surplus property that it cannot otherwise dispose of, which can generally be recycled at a cost less than the cost of landfill or incineration

## **Bunker Hill Community College**

### **Recycling Status, Issues, and Opportunities Bunker Hill Community College**

Primary Contact: Robert Biswanger  
Phone: 617-228-2345  
Email: rbiswanger@bhcc.state.ma.us

#### **Current Status**

Bunker Hill Community College (BHCC) enjoys the substantial benefit of a location literally next door to one of the largest multi-material recycling facilities in Massachusetts. Partially as a result, and also thanks to its own modern, self-contained facility, BHCC manages one of the most comprehensive recycling programs we have found among Massachusetts' community and state colleges.

Whatever these advantages, BHCC also benefits from a skilled and dedicated staff, who have put recycling front and center among their facilities management responsibilities. BHCC currently manages recycling programs for mixed paper (a specification that includes "anything that tears"), cardboard, computers and electronic equipment, and universal wastes (fluorescents, ballasts, batteries). A student-managed program captures most beverage containers. Not recycled are scrap metal, wood waste, and construction/demolition debris, all of which are generated irregularly and in small quantities, not enough (according to BSC staff) to merit implementation of a regular recycling program.

#### **Issues / Opportunities**

We identify opportunities for improved performance or cost effectiveness in only a few areas:

***Electronics and Universal Wastes:*** BHCC currently uses two service providers for these waste streams. The school might be able to reduce costs – for recycling, transportation, or both – by using a single service provider.

***Wood Waste and Scrap Metal:*** BHCC can consider the value of scheduling a periodic "purge" of one or both of these waste streams – holding materials long enough to generate a volume that would justify calling for a dedicated recycling container. To wastes that are clearly identified as wood or metal, the school should consider adding surplus property that it cannot otherwise dispose of, which can generally be recycled at a cost less than the cost of landfill or incineration.

**Bunker Hill Community College**  
**Massachusetts Community/State College Recycling: Current Practices and Potential Modifications**

Institution: Bunker Hill Community College		Site Visit Date: 6/5/03	
Contact: Robert Biswanger	Phone: 617-228-2345	Email: rbiswanger@bhcc.state.ma.us	
Material	Current Practice	Comments/Notes	Recommended Modifications
Mixed Office Paper (unshredded)	Collected in blue deskside bins. Picked up nightly by maintenance staff in toters and brought to dock for on-call pickup.	Excellent, comprehensive program. Approx. 12-16 95-gallon toters every two weeks.	Consider adding additional collection containers in student areas and classrooms.
Newspaper/Magazine Mix	See above. BHCC recycles full mix of office, mixed, ONP, and OMG.	See above.	
Confidential Documents	Shredded in indiv. offices, then recycled with mixed paper.	See above.	
Cardboard	Recycled by Save That Stuff. Boxes brought to storage area, broken down, then placed in dedicated recycling container, picked up on call.		
Containers (beverage and tin cans)	Student-managed program. Cardboard boxes in student areas. When box is full, student group swaps and takes full box for recycling.	Student group assumes responsibility for all aspects. Some concern that night maintenance crew might be taking redeemables.	Consider going to locking containers to avoid loss of redeemables. Evaluate potential to add containers from other sources (especially food prep).
Scrap Metal	Not recycled.	Very little generation.	Probably not enough generation to merit recycling.
Wood Waste	Not recycled.	Very little generation.	Probably not enough generation to merit recycling. Possibly evaluate pallets for dedicated pallet run.
Computers/Electronic Equipment	Recycled through Global. Collect to side of loading dock. Call for p/u when ~2 pallets are collected.	At-will agreement (no contract).	Consider single-source vendor that can pick up universals, batteries, and electronics together (eliminating separate collection charges).
Fluorescent Lamps & Ballasts (Universal wastes)	Recycled through Triumvirate. Collect in storage area in OEM boxes. Call for pickup when storage gets tight.		See above.
Batteries	Recycled (with universals) through Triumvirate.		See above.

**Bunker Hill Community College**  
**Massachusetts Community/State College Recycling: Current Practices and Potential Modifications**

Institution: Bunker Hill Community College  
 Contact: Robert Biswanger

Phone: 617-228-2345

Site Visit Date: 6/5/03  
 Email: rbiswanger@bhcc.state.ma.us

<b>Material</b>	<b>Current Practice</b>	<b>Comments/Notes</b>	<b>Recommended Modifications</b>
Surplus Property	Hold for potential internal reuse. If volume builds, use state system (90-day posting). If not taken through state system, discard to trash.	Compared to others, BHCC is relatively effective at using state system. Benefit from having adequate storage to hold for internal evaluation and reuse.	For items that don't move through state system, consider other reuse or donation options. Also consider bringing in dedicated wood and/or metal recycling dumpster or rolloff for periodic purge (instead of disposal).
Construction/Demolition	Not applicable.	Very little construction or renovation activity during past several years.	Evaluate on project-by-project basis to determine if volume and value of materials warrant recycling.

Cost to Purchase Additional Paper Recycling Containers, WSC			
Item	Number	Unit Cost	Total Cost
95 Gallon Schaefer containers (or equivalent) w/ slot top for paper	32	\$100	\$3,200
Rubbermaid "Slim Jim" recycling containers (or equivalent) w/ slot top	24	\$50	\$1,200
<b>Total Cost for Additional Containers</b>			<b>\$4,400</b>